**Chemistry Unit Outline 2013**

**Make a chemistry unit study sheet.** This study sheet will help you do well on this unit test and the June exam. Marks will be assigned for completing this study sheet. Print or write neatly. Underline or highlight key terms being defined. Use lots of well labelled diagrams. Use lined paper. This list is not guaranteed to be complete and anything from class could be on the test. See [**http://rosedalegrade9chemistry.wikispaces.com/home**](http://rosedalegrade9chemistry.wikispaces.com/home)for any missing lecture or worksheet.

ELEMENTS AND COMPOUNDS

* **particle theory**, define **atoms**, **molecules** and **compounds**
* describe and classify matter; pure substances (elements and compounds), mixtures (heterogeneous and homogeneous/solutions)
* **counting the atoms in a compound**
* **naming rules for ionic compounds, naming rules for molecular compounds, combining capacity,** know the **names**  for the five special substances
* **modelling compounds**; ball and stick models, bonding diagrams, structural diagrams
* define bond, compare **ionic and covalent bonds**
* name and describe **three gas tests**

THE ATOM

* know what atomic discovery was made by Dalton, Thompson, Rutherford, Bohr, Chadwick
* define and count **subatomic particles: protons, electrons, neutrons**
* explain**: nucleus, atomic number, atomic mass, standard atomic notation**
* describe **ions**, **cations, anions,** orbitals, valence electrons
* **draw Bohr – Rutherford diagrams** for the first 20 **neutral atoms** and their most common **ions**

THE PERIODIC TABLE

* state **Mendeleev’s periodic law**
* define a **group**, and a **period**
* on a periodic table be able to identify the following: **noble gases, alkali metals, halogens, metals, non-metals, metalloids**, and identify the special characteristics of each category

MATTER AND CHANGE

- Physical properties, define and be able to give examples of 12 physical **properties**

- Three chemical changes

- Three physical changes

- Use physical properties to describe substances as done in lab

- know the **5 clues to identify a chemical change**

**When your study sheet is complete you can use it to complete the entire review package!**

**Chemistry Unit Test Format -** approximate breakdown, about 60 - 65 marks

Multiple Choice and/or True/False questions - 10 marks

Matching - 15 marks

Diagrams - 15 marks

Short Answer - 20 marks

A periodic table will be attached to your test.